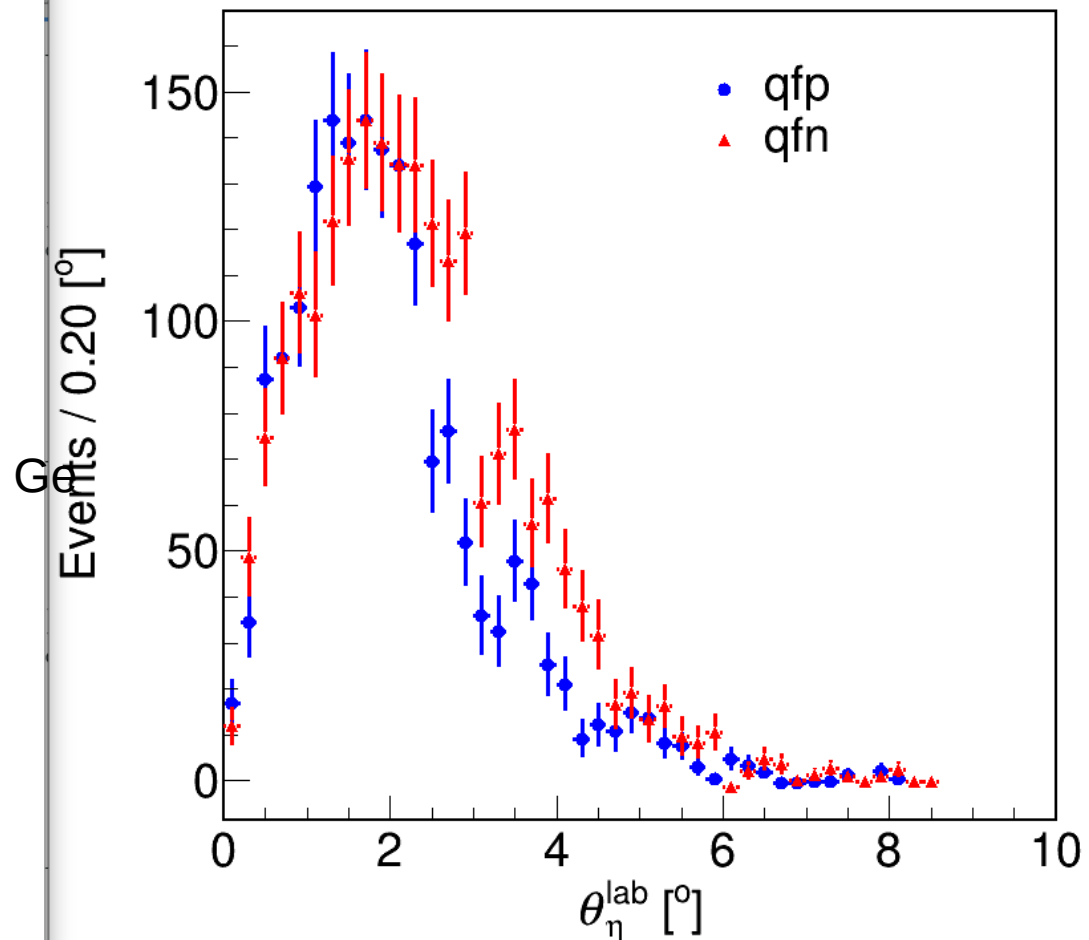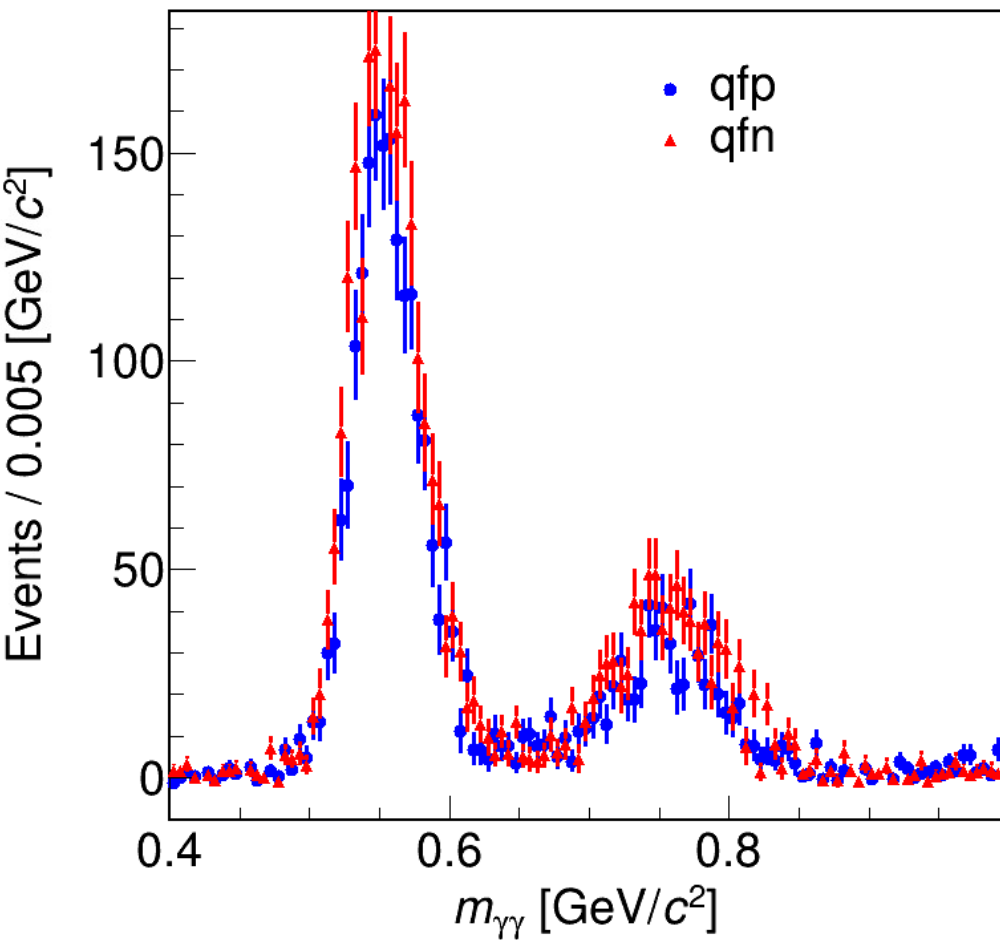# BGGEN

* Wrong format used for the incident photon-beam energy of 2019-01 and 2021-08 run period simulation

```
NBEAMEXT   78    0  6.0  9.875    # User's beam spectrum setting
RBEAMEXT 5.73619 4.72897 4.67415 4.56947 4.51569 3.3171 6.3556 4.2822 4.20922 4.12323 3.8081 4.18127 11.747 10.8079 9.7477 8.59918 3.23814 4.76617 5.99896 5.13568 5.81058 4.75342 5.31854 5.58889 5.5367
5.17176 5.11664 5.20426 5.2167 5.27737 5.28936 5.5437 5.63247 5.50777 6.56455 8.16073 6.4273 8.5358 7.92974 8.06893 8.03151 7.58613 7.57474 7.66492 9.03918 7.02297 9.03213 6.57764 7.4599 7.86439 7.19135
6.11355 8.7571 8.50157 5.45065 9.33525 5.72569 6.2492 8.98734 5.95038 7.83581 7.99348 7.3594 7.17858 5.81829 6.83283 9.0342 6.07047 6.29027 6.95565 6.70419 6.35024 6.86081 6.0334 6.11365 4.76836 3.18688
1.06414
```

* 2021-11 simulations are correct

```
C ------------ Beam -----------------------------
C          bins flg   Emin  Emax         flg=0 - bins of same width
NBEAMEXT    195  0    5.77177 10.6095    # User's beam spectrum setting
RBEAMEXT 4.2336e-07 0.00139802 104.965 47.3273 30.1301 36.6046 26.9281
         27.5124 31.5377 32.5105 30.2774 29.7494 29.031 28.7656 23.6286
         23.5141 22.707 22.8536 16.987 32.0149 22.3507 21.9825 22.1403
         20.9213 22.0954 34.6006 34.6612 34.8608 31.1544 38.39 34.017
         27.7521 10.2097 6.21616 16.0207 15.4534 16.0523 17.2118 18.5561
         9.79278 19.4645 15.5929 17.0662 20.115 14.5982 14.3459 18.8899
         20.0277 16.3809 22.2913 21.0404 20.3864 24.0637 23.2826 23.249
         24.6044 24.0048 23.1045 23.9251 26.3714 25.0522 26.5447 27.8187
         28.5321 30.1163 29.8631 29.8918 32.5339 31.3484 31.3252 32.7159
         34.7936 33.7769 39.9167 38.1942 40.1071 42.6885 46.7197 42.7256
         47.2046 43.6288 46.3187 49.7475 24.515 118.991 72.1878 63.4817
         67.6668 70.2241 135.413 67.7528 65.6858 56.44 45.3204 87.8985
         35.4218 31.0794 25.798 44.9255 17.3097 31.7088 13.7565 14.4209
         15.8556 13.5588 13.9403 13.5122 13.1762 13.0071 13.9803 25.3687
         12.9555 13.1682 13.2552 13.15 12.506 13.6024 25.8206 13.7636 12.5745
         13.2156 20.671 21.8217 19.8127 22.1074 21.624 13.8119 21.693 21.2056
         43.6936 22.3439 22.0252 22.359 22.8614 44.6795 22.4483 29.7477 27.9673
         23.965 25.5743 26.6545 21.4734 22.0866 18.9639 37.1126 18.9421 16.2195
         18.936 17.1352 18.7376 17.6437 19.392 17.7511 19.6612 18.3944 20.167
         18.5527 20.3737 17.6769 30.7131 26.2348 27.646 25.225 28.2789 26.3077
         28.9709 27.914 29.9315 25.4417 25.3808 21.7598 23.677 45.9418 20.9269
         19.7871 14.2016 14.8286 16.7822 17.8112 12.7564 13.006 11.4013 11.5606
         9.34777 9.96537 8.14767 8.2423 7.0055 12.474 5.56465 4.26246 7.43439
         3.25996 2.39408 4.26431

C
C ------------------------------------------------
```

Some distributions

Example script can be found here

/work/halld/home/ijaegle/public/ForPrimEXDeurs/farm_bggen.sh